



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/890,684A  
Source: 1690  
Date Processed by STIC: 5/13/04

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221**

**Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual! - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



1600

## RAW SEQUENCE LISTING

DATE: 05/13/2004

PATENT APPLICATION: US/09/890,684A

TIME: 12:18:38

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\05122004\I890684A.raw

3 <110> APPLICANT: Bullerdiek, Jrn  
 5 <120> TITLE OF INVENTION: Preparation for The Prevention and/or Treatment  
 6 of a Tissue Change of Mesenchymal Origin  
 8 <130> FILE REFERENCE: B3960PCT  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/890,684A  
 C--> 11 <141> CURRENT FILING DATE: 2001-08-03  
 13 <160> NUMBER OF SEQ ID NOS: 47  
 15 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

*pp 1-5*  
 Does Not Comply  
 Corrected Diskette Needed

224 <210> SEQ ID NO: 17  
 225 <211> LENGTH: 430  
 226 <212> TYPE: DNA  
 227 <213> ORGANISM: Adenovirus: isolate M7-1s  
 229 <400> SEQUENCE: 17  
 230 ggcaccttct accttaacca cactttcaag aaggtctcca tcatgtttga ctccctcagtc 60  
 231 agctggcctg gcaatgacag gctgttgagc ccaaatgagt ttgaaatcaa gcgcactgtg 120  
 232 gacggggaag gatacaacgt ggcacaatgc aacatgacca aagactgggt cctagttcag 180  
 233 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240  
 234 cgcattgtact cttttttcag aaacttccag cctatgagca ggcaggtggg tgatgaggtt 300  
 235 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta 360  
 236 gggtagcttg cacctactat gagacaaggg gaaccttacc cagccaatta tccatacccg 420  
 E--> 237 ctcacgcgaa  
 240 <210> SEQ ID NO: 18  
 241 <211> LENGTH: 430  
 242 <212> TYPE: DNA  
 243 <213> ORGANISM: Adenovirus: isolate M8-2s  
 245 <400> SEQUENCE: 18  
 246 ggcaccttct accttaacca cactttcaag aaggtctcca tcatgtttga ctccctcagtc 60  
 247 agctggcctg gcaatgacag gctgttgagc ccaaatgagt ttgaaatcaa gcgcactgtg 120  
 248 gacggggaag gatacaacgt ggcacaatgc aacatgacca aagactgggt cctagttcag 180  
 249 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240  
 250 cgcattgtact cttttttcag aaacttccag cctacgagca ggcaggtggg tgatgaggtt 300  
 251 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta 360  
 252 gggtagcttg cacctactat gagacaaggg gaaccttacc cggccaatta tccatacccg 420  
 E--> 253 ctcacgcgaa  
 515 <210> SEQ ID NO: 28  
 516 <211> LENGTH: 430  
 517 <212> TYPE: DNA  
 518 <213> ORGANISM: Adenovirus: isolate M3.3P-2  
 520 <400> SEQUENCE: 28

*430 ← insert  
 cumulative  
 base total  
 at right margin  
 of each  
 line*

*430 ← insert*

*P.2*

## RAW SEQUENCE LISTING

DATE: 05/13/2004

PATENT APPLICATION: US/09/890,684A

TIME: 12:18:38

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\05122004\I890684A.raw

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521 ggcacctttt accttaacca cactttcaag aaggtctcca tcatgtttga ctctcagtc 60
522 agctggcctg gcaatgacag gctgttgagc ccaaatgagt ttgaaatcaa gcgcactgtg 120
E--> 523 gacggggaag ggtacaatgt ggcccaatgt aacatgacca aagactgggt cctgggttcag 180
E--> 524 atgcttgcca actacaacat tggctaccag ggcttttaca ttcctgaggg atacaaggat 240
E--> 525 cgcattgtact cctttttcag aaacttccag cctatgagca ggcaggtggc tgatgaggt 300
526 aattacactg actacaaagc cggcacctta ccataccaac acaacaactc tggctttgta 360
527 gggatatcttg cacctactat gagacaaggg gaaccttacc cagccaatta tccatacccg 420
528 ctcatcggaa 430
600 <210> SEQ ID NO: 32
601 <211> LENGTH: 143
602 <212> TYPE: PRT
603 <213> ORGANISM: Adenovirus: isolate M3-3p
605 <400> SEQUENCE: 32
606 Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
607 1 5 10 15
609 Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
610 20 25 30
612 Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
613 35 40 45
E--> 615 Xaa Xaa Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
616 50 55 60
E--> 618 Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Xaa Pro Glu Gly Tyr Lys Asp
619 65 70 75 80
621 Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
622 85 90 95
E--> 624 Ala Asp Glu Xaa Asn Tyr Thr Asp Tyr Lys Ala Gly Thr Leu Pro Tyr
625 100 105 110
627 Gln His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
628 115 120 125
630 Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
631 130 135 140
721 <210> SEQ ID NO: 36
722 <211> LENGTH: 430
723 <212> TYPE: DNA
724 <213> ORGANISM: Adenovirus: isolate M5-1s
726 <400> SEQUENCE: 36
727 ggcacctttt accttaacca cactttcaag aaggtctcca tcatgtttga ctctcagtc 60
728 agctggcctg gcaatgacag gctgttgagc ccaaatgagt ttgaaatcaa gcgcactgtg 120
729 gacggggaag ggtacaatgt ggcccaatgt aacatgacca aagactgggt cctgggttcag 180
730 atgcttgcca actacaacat tggctaccag ggcttttaca ttcctgaggg atacaaggat 240
731 cgcattgtact cctttttcag aaacttccag cctatgagca ggcaggtggg tgatgaggt 300
732 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta 360
733 gggatatcttg cacctactat gagacaaggg gaaccttacc cagccaatta tccatacccg 420
E--> 734 ctcatcggaa 430
737 <210> SEQ ID NO: 37
738 <211> LENGTH: 430
739 <212> TYPE: DNA
740 <213> ORGANISM: Adenovirus: isolate M6-1s
742 <400> SEQUENCE: 37

```

see  
p. 5  
for even  
explanation

see p. 5

4306 insert

P. 3

## RAW SEQUENCE LISTING

DATE: 05/13/2004

PATENT APPLICATION: US/09/890,684A

TIME: 12:18:38

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\05122004\I890684A.raw

```

743 ggcacctttt accttaacca cactttcaag aaggtctcca tcatgtttga ctccctcagtc 60
744 agctggcctg gcaatgacag gctgttgctt ccaaagtgagt ttgaaatcaa gcgcactgtg 120
745 gatggggaag gatacaatgt ggcccaatgc aacatgacca aagactgggtt cctggttcag 180
746 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240
747 cgcagtgtact cttttttcag aaacttccag cctatgagca ggcaggtggt tgatgaggtt 300
748 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta 360
749 ggataccttg cgcctactat gagacaaggg gaaccttacc cagccaatta tccatacccg 420
E--> 750 ctcacgcgaa 430C-Insert
753 <210> SEQ ID NO: 38
754 <211> LENGTH: 430
755 <212> TYPE: DNA
756 <213> ORGANISM: Adenovirus: isolate M7-1s
758 <400> SEQUENCE: 38
759 ggcaccttct accttaacca cactttcaag aaggtctcca tcatgtttga ctccctcagtc 60
760 agctggcctg gcaatgacag gctgttgagc ccaaagtgagt ttgaaatcaa gcgcactgtg 120
761 gacggggaag gatacaacgt ggcacaatgc aacatgacca aagactgggtt cctagttcag 180
762 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240
763 cgcagtgtact cttttttcag aaacttccag cctatgagca ggcaggtggt tgatgaggtt 300
764 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta 360
765 gggtagcttg cacctactat gagacaaggg gaaccttacc cagccaatta tccatacccg 420
E--> 766 ctcacgcgaa 430C-Insert
769 <210> SEQ ID NO: 39
770 <211> LENGTH: 430
771 <212> TYPE: DNA
772 <213> ORGANISM: Adenovirus: isolate M8-2s
774 <400> SEQUENCE: 39
775 ggcaccttct accttaacca cactttcaag aaggtctcca tcatgtttga ctccctcagtc 60
776 agctggcctg gcaatgacag gctgttgagc ccaaagtgagt ttgaaatcaa gcgcactgtg 120
777 gacggggaag gatacaacgt ggcacaatgc aacatgacca aagactgggtt cctagttcag 180
778 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240
779 cgcagtgtact cttttttcag aaacttccag cctacgagca ggcaggtggt tgatgaggtt 300
780 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta 360
781 gggtagcttg cacctactat gagacaaggg gaaccttacc cggccaatta tccatacccg 420
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784 <210> SEQ ID NO: 40
785 <211> LENGTH: 430
786 <212> TYPE: DNA
787 <213> ORGANISM: Adenovirus: isolate M9-2s
789 <400> SEQUENCE: 40
790 ggcaccttct accttaacca cactttcaag aaggtctcca tcatgtttga ctccctcagtc 60
791 agctggcctg gcaatgacag gctgttgagc ccaaagtgagt ttgaaatcaa gcgcactgtg 120
792 gacggggaag gatacaacgt ggcacaatgc aacatgacca aagactgggtt cctagttcag 180
793 atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240
794 cgcagtgtact cttttttcag aaacttccag cctatgagca ggcaggtggt tgatgaggtt 300
795 aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggctttgta 360
796 gggtagcttg cacctactat gagacaaggg gaaccttacc cagccaatta tccatacccg 420
E--> 797 ctcacgcgaa 430C-Insert
1009 <210> SEQ ID NO: 47
1010 <211> LENGTH: 720

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P.4

## RAW SEQUENCE LISTING

DATE: 05/13/2004

PATENT APPLICATION: US/09/890,684A

TIME: 12:18:38

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\05122004\I890684A.raw

1011 <212> TYPE: DNA  
 1012 <213> ORGANISM: Adenovirus  
 1014 <223> OTHER INFORMATION: promoter sequence of the adenoviral protein E1A  
 1015 (as shown in fig. 5)  
 1017 <400> SEQUENCE: 47  
 1018 ctctctatat aatatacctt atagatggaa tgggtgccaac atgtaaatga ggtaatttaa 60  
 1019 aaaagtgcgc gctgtgtggt gattggctgt ggggtgaatg actaacatgg gcggggcggc 120  
 1020 cgtgggaaaa tgacgtgact tatgtgggag gagttatgtt gcaagttatt gcggtaaatg 180  
 1021 tgacgtaaaa ggaggtgtgg tttgaacacg gaagtagaca gttttccac gcttactggt 240  
 1022 aggatatgag gtagttttgg gcggatgcaa gtgaaaattc tccattttcg cgcgaaaact 300  
 1023 gaatgaggaa gtgaatttct gagtcatttc gcggttatga cagggtggag tatttgccga 360  
 1024 gggccgagta gactttgacc gtttacgtgg aggtttcgat taccgtgttt ttcacctaaa 420  
 1025 tttccgcgta cgggtgtcaa gtccgtgtgt tttacgtagg tgtcagctga tcgctagggt 480  
 1026 atttaaacct gacgagttcc gtcaagaggg cactcttgag tgccagcgag aagagttttc 540  
 1027 tctccgcgcg cgcaagtcag ttctgcgctt tgaaaatgag acacctgcgc ttctgcccac 600  
 1028 aggagattat ctccagttag accgggatcg aaatactgga gtttgtggta aataccctaa 660  
 1029 tgggagacga cccggaaccg ccagtgcagc cttttgatcc acctacgctg cacgatctgt 720

E--&gt; 1035 (17)

*delete**insert <220> wherever <221>, <222>, or <223> is shown.**<220> is a "header" only. It never has a response.*

## VARIABLE LOCATION SUMMARY

DATE: 05/13/2004

PATENT APPLICATION: US/09/890,684A

TIME: 12:18:39

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\05122004\I890684A.raw

*env explanation.*  
Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if n's or Xaa's are present.

in &lt;220&gt; to &lt;223&gt; section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:28; N Pos. 147,148,222,299

Seq#:32; Xaa Pos. 49,50,74,100

## VERIFICATION SUMMARY

DATE: 05/13/2004

PATENT APPLICATION: US/09/890,684A

TIME: 12:18:39

Input Set : A:\PTO.LM.txt

Output Set: N:\CRF4\05122004\I890684A.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:237 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:430 SEQ:17  
L:253 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:430 SEQ:18  
L:523 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28  
L:524 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28  
L:525 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28  
L:615 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32  
L:618 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32  
L:624 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32  
L:734 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:430 SEQ:36  
L:750 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:430 SEQ:37  
L:766 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:430 SEQ:38  
L:782 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:430 SEQ:39  
L:797 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:430 SEQ:40  
L:1017 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:47  
L:1035 M:254 E: No. of Bases conflict, this line has no nucleotides.